Literature Survey On The Selected Project & Information Gathering
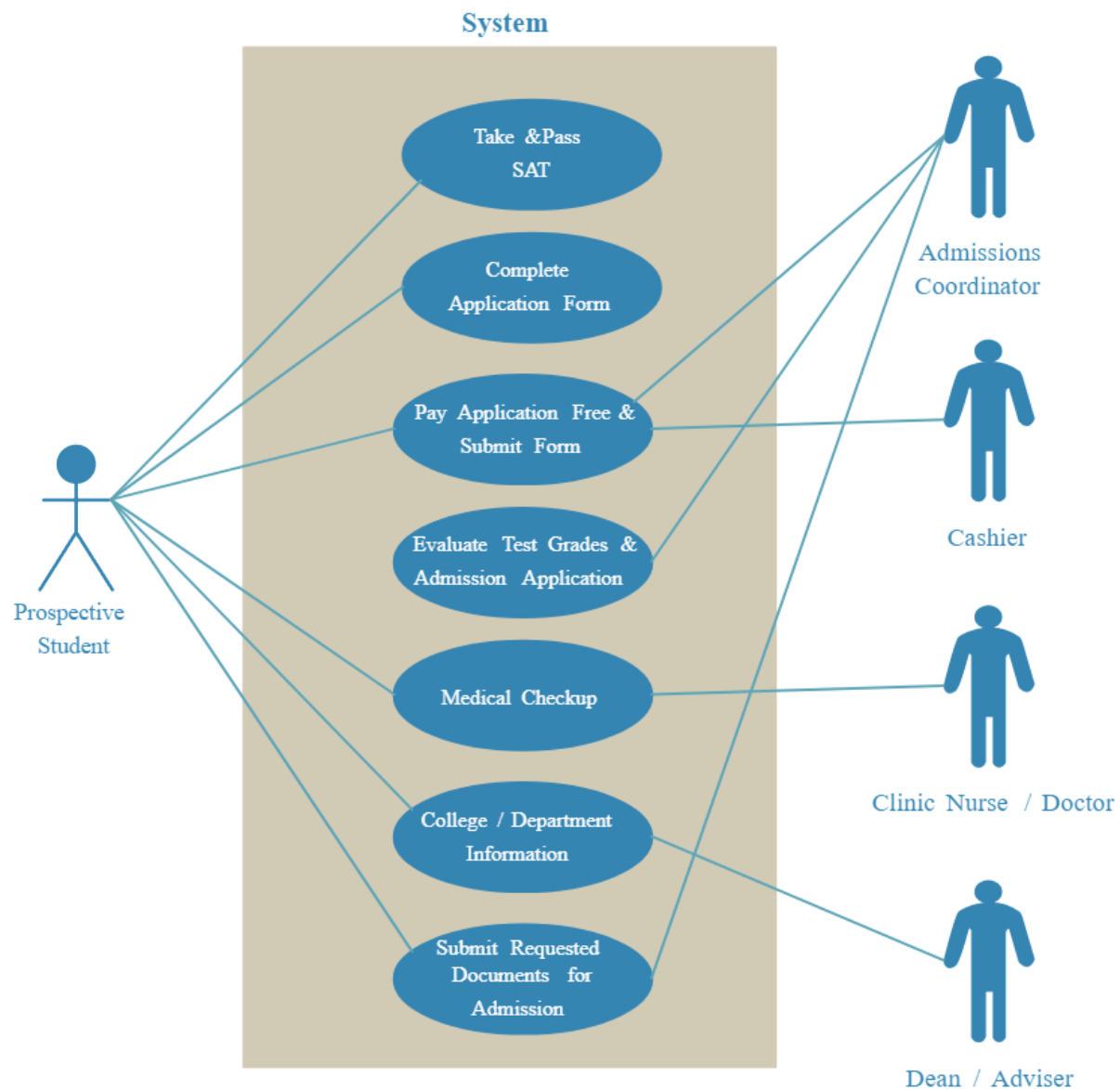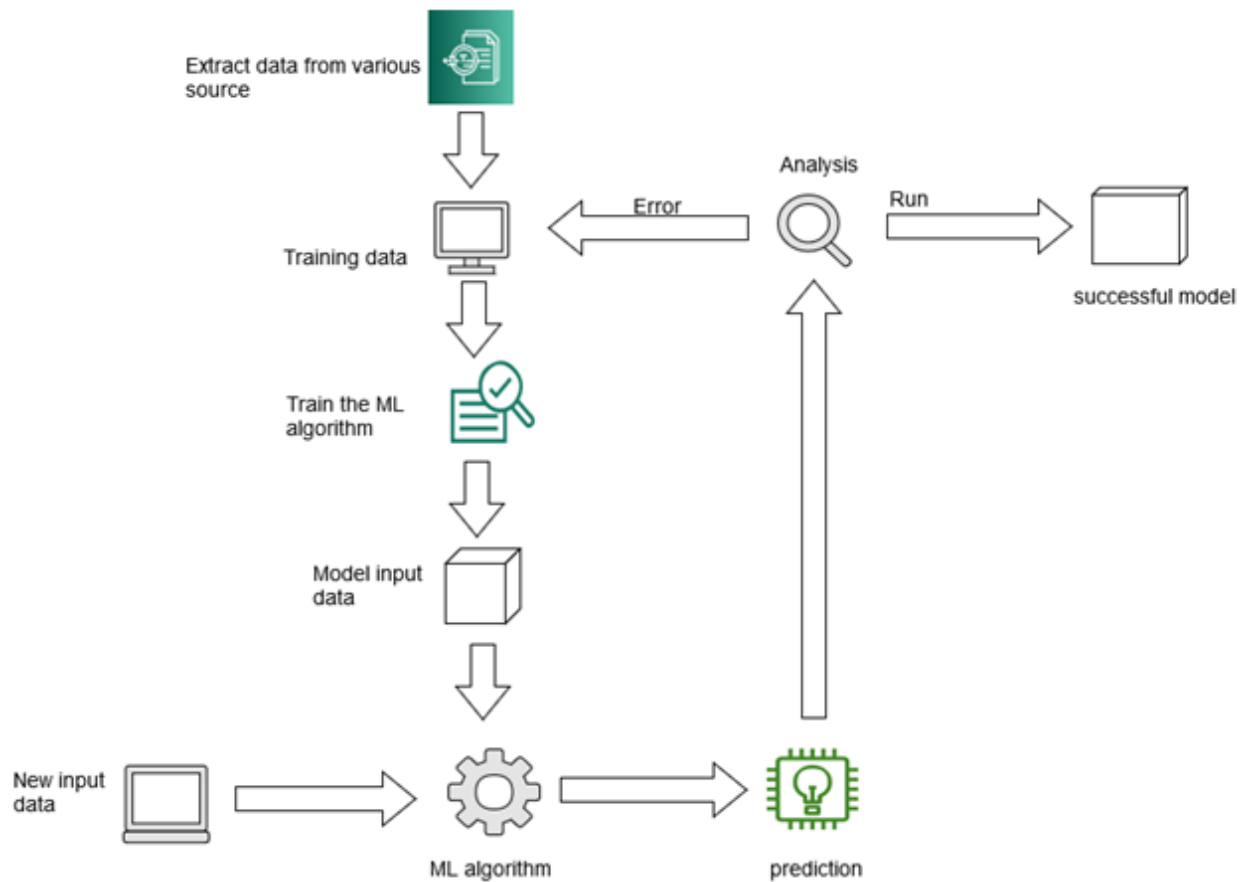
Project Use Case :

Admission Process:

Project flow in machine learning:

Extract data from various source

Training data

Error

Analysis

Run

successful model

Train the ML algorithm

Model input data

New input data

ML algorithm

prediction

Learnings :

- Data Preprocessing is vital to the accuracy of the models
- Choosing appropriate machine learning techniques and algorithms to model the system
- Graphical representation of the data provides useful insights and can lead to better models
- Defining scope with respect to the dataset

Future Enhancement :

- Creating the model with additional parameters such as Work Experience, Technical Papers Written, and Content of Letter of Recommendation etc.
- Creating a model based on the graph of admitted vs enrolled students of previous years to predict the increase or decrease in cutoff scores among applicants
- Comparing different universities based on applied vs admitted data

Literature Survey :

A literature review is a comprehensive summary of previous research on a topic. The literature review surveys scholarly articles, books, and other sources relevant to a particular area of research. The review should enumerate, describe, summarize, objectively evaluate and clarify this previous research.

Existing solution,Technical papers and Research publications:

- M. Injadat, A. Moubayed, A. B. Nassif, and A. Shami, "Multi-split Optimized Bagging Ensemble Model Selection for Multi-class Educational Data Mining," Appl. Intell., vol. 50, pp. 4506–4528, 2020.

- F. Salo, M. Injadat, A. Moubayed, A. B. Nassif, and A. Essex, "Clustering Enabled Classification using Ensemble Feature Selection for Intrusion Detection," in 2019

International Conference on Computing, Networking and Communications (ICNC), 2019, pp. 276–281.

- M. N. Injadat, A. Moubayed, A. B. Nassif, and A. Shami, "Systematic ensemble model selection approach for educational data mining," Knowledge-Based Syst., vol. 200, p. 105992, Jul. 2020.

- Subba Reddy.Y and Prof. P. Govindarajulu," A survey on data mining and machine learning techniques for internet voting and product/service selection", IJCSNS International Journal of Computer Science andNetwork Security, VOL.17 No.9 September 2017.

- Zhibo Wang, Jilong Liao, Qing Cao, Hairong Qi, and Zhi Wang, "Friend book: A Semanticbased Friend Recommendation System for Social Networks IEEE Transactions on Mobile Computing.

- J. Bobadilla et al. "Knowledge-Based System" Elsevier B.V.

- Elham S.Khorasani, Zhao Zhenge, and John Champaign. AMarkov Chain Collaborative Filtering Model for CourseEnrollment Recommendations: 2016, "IEEE International Conference on Big Data (Big Data)", P. 3484 – 3490.